## FINAL REMEDIAL ACTION CONSTRUCTION DRAWINGS

THE ELLIS PROPERTY SUPERFUND SITE

150 SHARP ROAD

EVESHAM TOWNSHIP

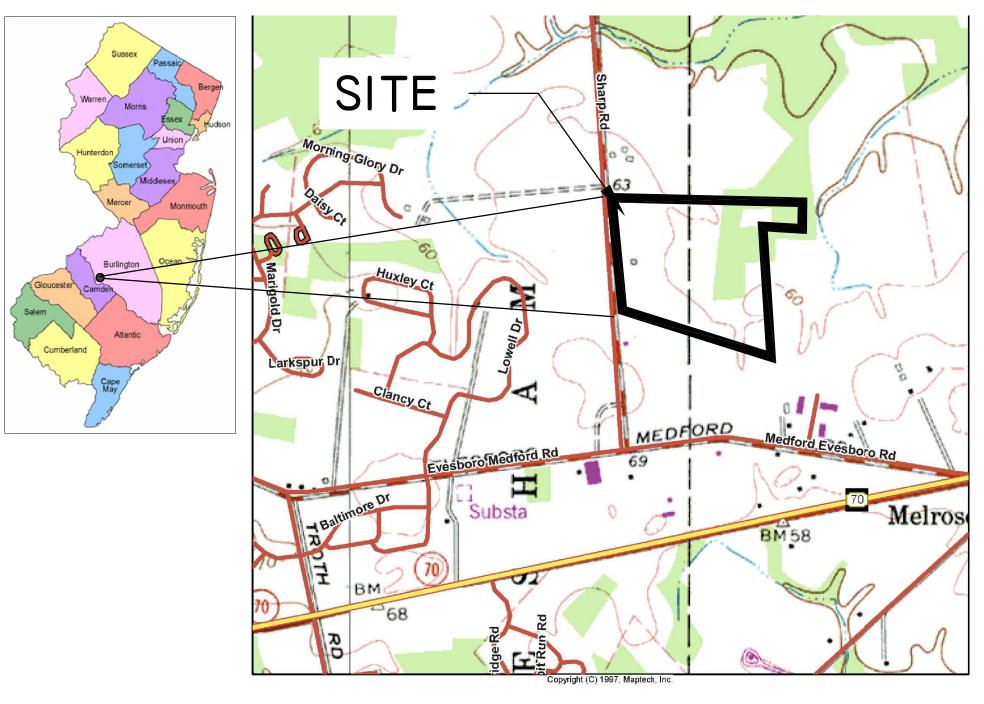
BURLINGTON COUNTY, NEW JERSEY

PREPARED FOR: PREPARED BY:



HDR OBG a joint venture

### FEBRUARY 2020



LOCATION MAP

# CONSTRUCTION DRAWING INDEX

SHEET G-00 G-01 V-01 C-01 C-02 C-03 C-04 C-05 C-06 C-07 C-08	TITLE COVER SHEET GENERAL NOTES EXISTING CONDITIONS PLAN REMEDIAL ACTION SITE PLAN UTILITY RELOCATION PLAN CONSTRUCTION STAGING PLAN IN SITU THERMAL TREATMENT AREAS ISTT AREA CROSS SECTION A-A' ISTT AREA CROSS SECTION B-B' ISTT AREA CONFIRMATORY SAMPLING PLAN SITE RESTORATION GRADING PLAN
	10117111271 011000 01011011 2 2
C-09	SITE RESTORATION RE-VEGETATION PLAN
D-01	CONSTRUCTION DETAILS
D-02	AS-BUILT DETAILS
D-03	EROSION CONTROL DETAILS

#### GENERAL NOTES:

- 1. ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES AND REGULATIONS.
- 2. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS BEFORE BEGINNING WORK.
- 3. SITE IS LOCATED AT 150 SHARP ROAD IN EVESHAM TOWNSHIP, BURLINGTON COUNTY, NEW JERSEY.
- 4. ACCESS TO THE SITE WAS OBTAINED THROUGH A CONSENT ORDER ISSUED IN 1996.
- 5. ALL SITE FEATURES SHALL BE FIELD VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION. ANY DISCREPANCIES NOTED SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE CONTRACTING OFFICER.
- 6. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE A GEOPHYSICAL SURVEY COMPLETED TO LOCATE ALL EXISTING UNDERGROUND UTILITIES AND STRUCTURES WHETHER SHOWN ON THIS PLAN OR NOT, AND TO PROTECT THEM FROM DAMAGE. THE SURVEY SHALL INCLUDE THE LOCATION OF THE SHEET PILE WALL INSTALLED AS A PART OF THE EXCAVATION PORTION OF THE REMEDY.
- 7. IN THE EVENT THE CONTRACTOR DAMAGES ANY EXISTING UTILITY SERVICE CAUSING SERVICE INTERRUPTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE CONTRACTING OFFICER.
- 8. PROVISIONS SHALL BE TAKEN TO MINIMIZE NOISE. CONSTRUCTION ACTIVITIES ARE NOT PERMITTED BETWEEN THE HOURS OF 5PM TO 7AM.
- 9. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING UNAUTHORIZED PERSONS DO NOT ENTER THE EXCLUSION ZONE. SNOW FENCE OR OTHER ACCEPTABLE MEANS SHALL BE PROVIDED AROUND THE HAZARDOUS WORK ZONE TO RESTRICT ACCESS.
- 10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SECURITY OF THE SITE. ANY REPAIRS RESULTING FROM DAMAGE CAUSED BY TRESPASSERS SHALL BE AT THE EXPENSE OF THE CONTRACTOR. MINIMUM SECURITY MEASURES SHALL BE AS REQUIRED BY THE CONTRACT SPECIFICATIONS.
- 11. ALL AREAS DISTURBED BY THE CONTRACTOR SHALL BE RESTORED TO THEIR ORIGINAL CONDITIONS TO THE SATISFACTION OF THE CONTRACTING OFFICER.

### SURVEY NOTES:

- 1. SURVEY BY MERESTONE CONSULTING INC. DATED NOVEMBER 12, 2014.
- 2. HORIZONTAL DATUM = NJSPCS NAD83(NA2011) EPOCH 2010.0000.
- 3. VERTICAL DATUM = NAVD 1988 (GEOID 2012A).
- 4. LOCATION OF THE SHEET PILE WALL ALONG THE NORTH PORTION OF THE SITE IS BASED ON SHEET 3 OF 7 OF THE PLAN SET ENTITLED ELLIS PROPERTY SUPERFUND SITE, GROUND WATER BARRIER WALL, DATED APRIL 22, 2011, PREPARED BY THE LOUIS BERGER GROUP, INC.

#### WASTE DISPOSAL NOTES:

- 1. THE CONTRACTOR MUST TAKE EVERY EFFORT TO REDUCE THE AMOUNT OF WASTE THAT IS GENERATED, TO REUSE MATERIALS WITH THE CONCURRENCE OF THE CONTRACTING OFFICER, AND TO SEGREGATE WASTE MATERIALS FOR WASTE DISPOSAL.
- 2. ALL WASTE MATERIALS MUST BE PROPERLY TRANSPORTED, STORED, HANDLED, AND CONTAINED TO PREVENT SPILLS, LEAKAGE, DISCHARGE OR RELEASE TO THE ENVIRONMENT. WASTE CONTAINERS MUST BE PROPERLY LABELED TO IDENTIFY CONTENTS.
- 3. CONTRACTOR MUST NOT DISCHARGE OR DISPOSE OF ANY WASTE INTO ANY WATER BODY.
- 4. CONTRACTOR MUST DISPOSE OF ALL WASTE MATERIALS ACCORDING TO ALL LOCAL, STATE AND FEDERAL REGULATIONS.
- 5. THE REGIONAL OFF-SITE COORDINATOR FOR EPA REGION 2 SHALL APPROVE THE WASTE DISPOSAL FACILITY SELECTED BY THE CONTRACTOR. ALL WASTE MANIFESTS REQUIRED FOR THE PROJECT SHALL BE PREPARED AND SIGNED BY THE CONTRACTING OFFICER.

#### LAND GRADING NOTES:

- 1. PROVISIONS SHALL BE MADE TO DIVERT SURFACE RUNOFF AWAY FROM EXPOSED AREAS. RUNOFF THAT COMES IN CONTACT WITH IMPACTED SOILS SHALL BE COLLECTED AND EITHER TREATED IN A TEMPORARY GROUNDWATER TREATMENT SYSTEM PROVIDED BY THE CONTRACTOR OR DISPOSED OFF—SITE TO AN APPROVED FACILITY.
- 2. ALL GRADED OR DISTURBED AREAS, INCLUDING SLOPES, SHALL BE PROPERLY PROTECTED DURING CLEARING AND CONSTRUCTION IN ACCORDANCE WITH THE EROSION AND SEDIMENT CONTROL PLAN UNTIL THEY ARE ADEQUATELY STABILIZED.
- 3. ALL EROSION AND SEDIMENT CONTROL PRACTICES AND MEASURES SHALL BE CONSTRUCTED, APPLIED, AND MAINTAINED IN ACCORDANCE WITH THE SEDIMENT CONTROL PLAN AND THE "NEW JERSEY EROSION CONTROL STANDARDS.
- 4. AREAS THAT ARE TO BE TOPSOILED SHALL BE SCARIFIED TO A MINIMUM DEPTH OF FOUR INCHES PRIOR TO PLACEMENT OF TOPSOIL.

#### ISTT SYSTEM NOTES:

- 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING THE POWER DROP FOR THE ISTT SYSTEM IN A REASONABLE TIME FRAME SO AS TO NOT UNNECESSARYILY DELAY THE PROJECT WORK.
- 2. THE ISTT SYSTEM SHALL BE IN ACCORDANCE WITH ALL STATE, FEDERAL, AND LOCAL REGULATIONS. ALL PERMITS REQUIRED TO INSTALL AND OPERATE THE SYSTEM SHALL BE OBTAINED BY THE CONTRACTOR PRIOR TO BEGINNING INSTALLATION.

#### CONSTRUCTION SEQUENCE:

A PRELIMINARY SCHEDULE FOR THE ACTIVITIES NECESSARY TO COMPLETE THE REMEDIAL ACTION (RA) IS BELOW. THE ACTUAL SEQUENCE WILL BE DETERMINED BY THE CONTRACTOR AND SHALL BE INCLUDED IN THE WORK PLAN THAT WILL BE SUBMITTED PRIOR TO COMMENCING THE WORK.

- 1. OBTAIN/INSTALL POWER DROP.
- 2. UNDERGROUND UTILITY LOCATION: ALL UNDERGROUND UTILITIES AND THE EXISTING GROUNDWATER BARRIER WALL SHALL BE LOCATED.
- 3. MOBILIZATION: TRAILERS AND EQUIPMENT SHALL BE MOBILIZED TO THE SITE.
- 4. SITE PREPARATION: INSTALL THE TEMPORARY CHAIN LINK FENCE, ALL EROSION CONTROL MEASURES, CONSTRUCT THE STABILIZED CONSTRUCTION ENTRANCE.
- 5. SITE PREPARATION: INSTALL EROSION AND SEDIMENT CONTROLS AND CLEAR AREA DESIGNATED FOR ISTT. INSTALL TEMPORARY FACILITIES INCLUDING PERIMETER FENCING (IF REQUIRED).
- 6. INSTALL/OPERATE ISTT SYSTEM: MOBILIZE ISTT EQUIPMENT TO THE SITE AND CONSTRUCT SYSTEM. PROVIDE STARTUP AND TROUBLE SHOOTING AND THEN BEGIN OPERATION. THE SYSTEM WILL BE OPERATED UNTIL THE CLEAN UP GOALS ARE MET.
- 7. DEMOBILIZE ISTT SYSTEM: UPON ACHIEVING THE CLEANUP GOALS FOR THE SITE THE ISTT SYSTEM WILL BE DEMOBILIZED. ALL PIPING AND EQUIPMENT WILL BE REMOVED FROM THE SITE. WELLS SHALL BE ABANDONED IN PLACE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- 8. RESTORATION: RESTORE THE ISTT AREA. REMOVE AND DISPOSE OF COVER SYSTEM. REGRADE AREA AS NEEDED TO RESTORE TO EXISTING ELEVATIONS AND PROVIDE POSITIVE DRAINAGE AND PREVENT PONDING. PLACE FOUR INCHES OF TOPSOIL AND SEED WITH PERMANENT SEED AND MULCH. INSTALL FIVE PAIRS OF MONITORING WELLS SIX MONTHS AFTER ISTT SYSTEM SHUTDOWN TO ALLOW THE AREA TO COOL BEFORE INSTALLATION. RESTORE ALL EXISTING INFRASTRUCTER DAMAGED DURING ISTT.

#### MAINTENANCE AND PROTECTION OF TRAFFIC

- 1. ALL TRAFFIC CONTROL DEVICES USED FOR MAINTENANCE AND PROTECTION OF TRAFFIC SHALL CONFORM TO THE APPLICABLE SPECIFICATIONS AS SET FORTH IN THE NATIONAL MUTCD LATEST EDITION.
- 2. THE CONTRACTOR SHALL NOT PARK EQUIPMENT OR STORE MATERIAL OVERNIGHT WHERE IT IS DEEMED BY THE CONTRACTING OFFICER TO BE A HAZARD TO TRAFFIC.
- 3. THE CONTRACTOR SHALL NOT ALLOW CONSTRUCTION RELATED VEHICLES OR ACTIVITIES TO IMPEDE OR ADVERSELY AFFECT THE FLOW OF TRAFFIC ON THE SHARP ROAD. THE CONTRACTOR SHALL NOT ALLOW CONSTRUCTION RELATED VEHICLES TO QUEUE ALONG SHARP ROAD WITHOUT PRIOR APPROVAL FROM THE CONTRACTING OFFICER.
- 4. DURING THE PROGRESS OF CONSTRUCTION, TRUCKS ENTERING OR LEAVING THE SITE SHALL USE ONLY ROADS THAT PERMIT TRUCK TRAVEL AS GOVERNED BY ANY AGENCY HAVING JURISDICTION. ALL ROADWAYS AFFECTED BY CONSTRUCTION OF THIS PROJECT SHALL BE RESTORED TO PRECONSTRUCTION CONDITIONS.
- 5. FLAGMEN PROVIDED BY THE CONTRACTOR SHALL BE ON SITE WHENEVER TRUCKS ENTER OR EXIT THE SITE TO ALLOW THE SAFE ENTERING AND EXITING OF SINGLE VEHICLES ONTO SHARP ROAD AND TO MINIMIZE QUEUING ON SHARP ROAD.

#### ENVIRONMENTAL NOTES:

- THE CONTRACTOR SHALL REDUCE VEHICLE IDLING. ALL VEHICLES, BOTH
  ON AND OFF ROAD (INCLUDING CONSTRUCTION EQUIPMENT) SHALL BE
  SHUT OFF WHEN NOT IN USE FOR MORE THAN 5 MINUTES.
- 2. CONTRACTORS MUST NOT SPILL, DISCHARGE, OR RELEASE ANY HAZARDOUS MATERIAL OR CHEMICAL UPON OR FROM THE SITE. A RELEASE IS DEFINED AS ANY UNPLANNED RELEASE, LEAKING, PUMPING, POURING, EMITTING, DUMPING, DISCHARGING, EMPTYING, OR DISPOSING OF A HAZARDOUS MATERIAL OR CHEMICAL (INCLUDING WASTEWATER OR CHEMICALLY TREATED WATER) FROM A PRIMARY CONTAINMENT.
- 3. CONTRACTOR EQUIPMENT MUST BE PROPERLY MAINTAINED AND IS SUBJECT TO INSPECTION BY THE CONTRACTING OFFICER. IF EQUIPMENT IS FOUND LEAKING, IT MUST IMMEDIATELY BE CONTAINED, STOPPED, AND REPAIRED.
- 4. UNREPORTED SPILLS, DISCHARGES, AND RELEASES ARE A VIOLATION OF FEDERAL, STATE, AND LOCAL LAWS. IF A CHEMICAL OR UNKNOWN LIQUID IS SPILLED, DISCHARGED, OR RELEASED TO THE PROPERTY, THE CONTRACTOR MUST IMMEDIATELY NOTIFY THE CONTRACTING OFFICER.
- 5. WHEN A SPILL, DISCHARGE, OR RELEASE IS DIRECTLY ATTRIBUTABLE TO A CONTRACTOR, THEIR SUBCONTRACTOR OR SUPPLIER, THE CONTRACTOR MUST PROVIDE ANY ASSISTANCE REQUIRED TO IDENTIFY THE CAUSE OF THE RELEASE AND TO CLEAN UP THE RELEASE. HOWEVER CONTRACTORS MUST NOT BEGIN CLEAN UP UNTIL AUTHORIZED TO DO SO BY THE CONTRACTING OFFICER.
- 6. ANY CHEMICAL SPILL, DISCHARGE, OR RELEASE CAUSED BY THE CONTRACTOR MUST BE CLEANED TO THE THE CONTRACTING OFFICER'S SATISFACTION.



Kansas City District

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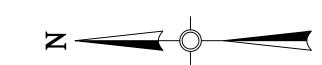
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EVESHAM LOWNSHIP, NEW JERSE GENERAL NOTES

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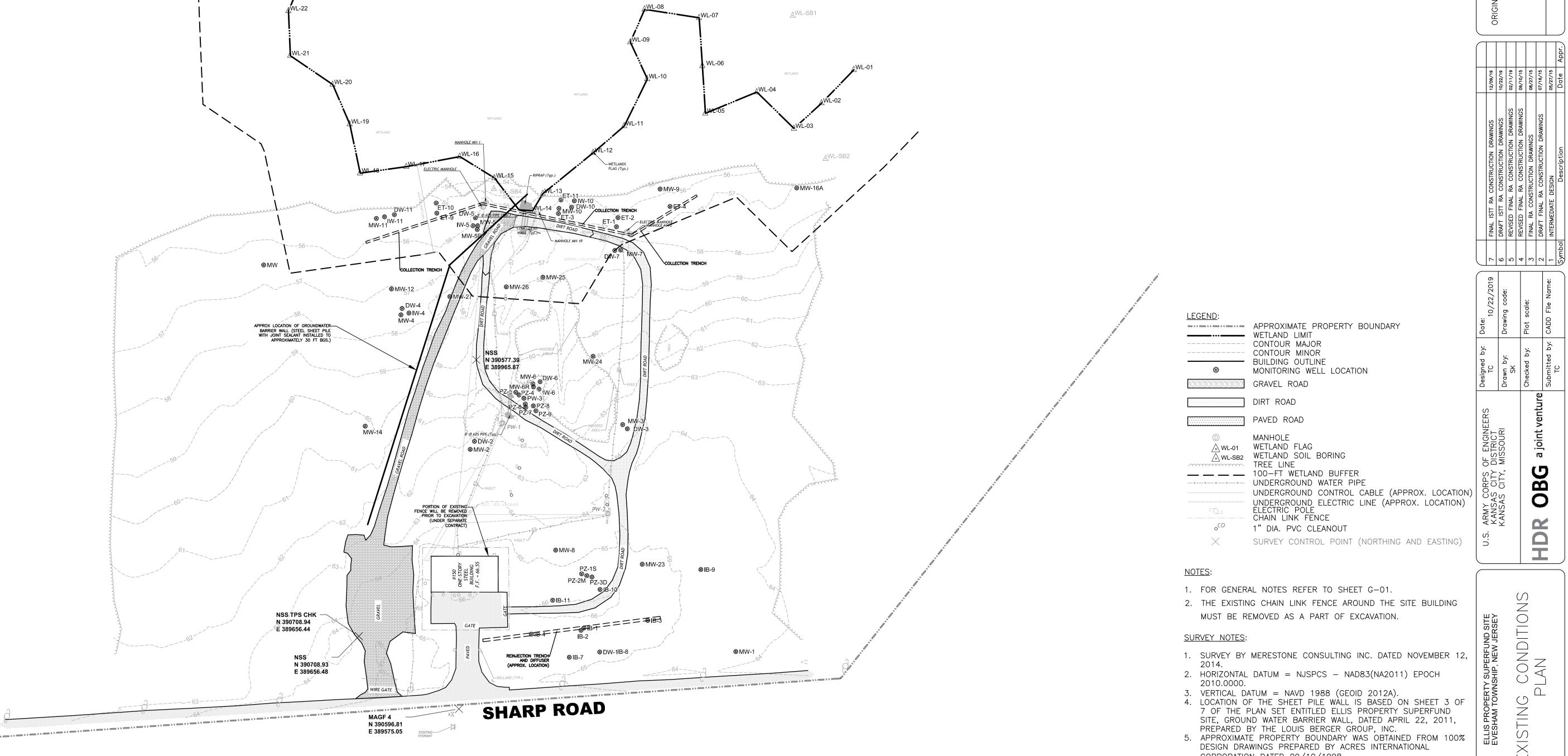


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- 4. LOCATION OF THE SHEET PILE WALL IS BASED ON SHEET 3 OF 7 OF THE PLAN SET ENTITLED ELLIS PROPERTY SUPERFUND SITE, GROUND WATER BARRIER WALL, DATED APRIL 22, 2011, PREPARED BY THE LOUIS BERGER GROUP, INC.
- 5. APPROXIMATE PROPERTY BOUNDARY WAS OBTAINED FROM 100% DESIGN DRAWINGS PREPARED BY ACRES INTERNATIONAL CORPORATION DATED 09/10/1998.

GRAPHIC SCALE ( IN FEET ) 1 inch = 60 ft.

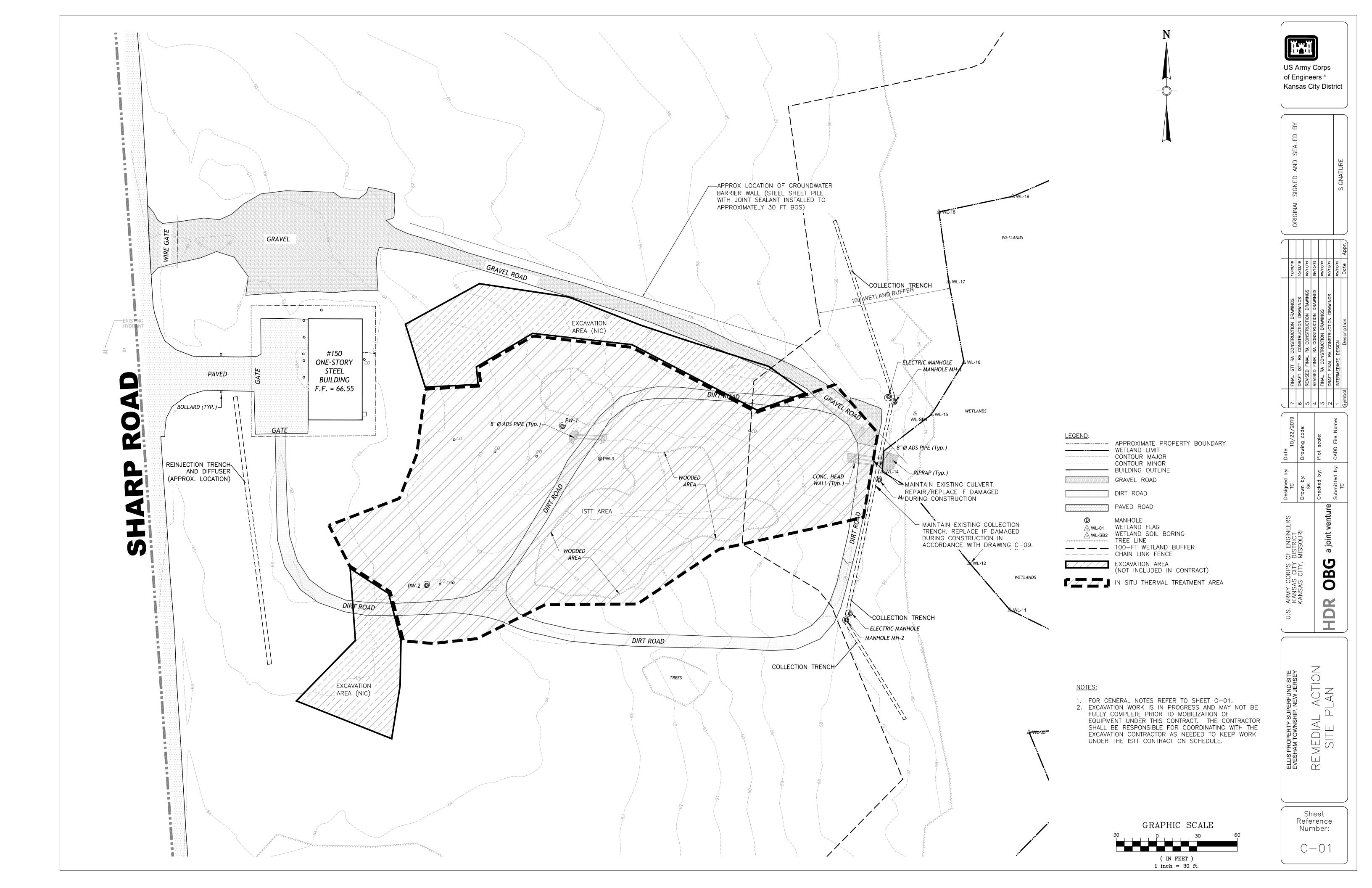
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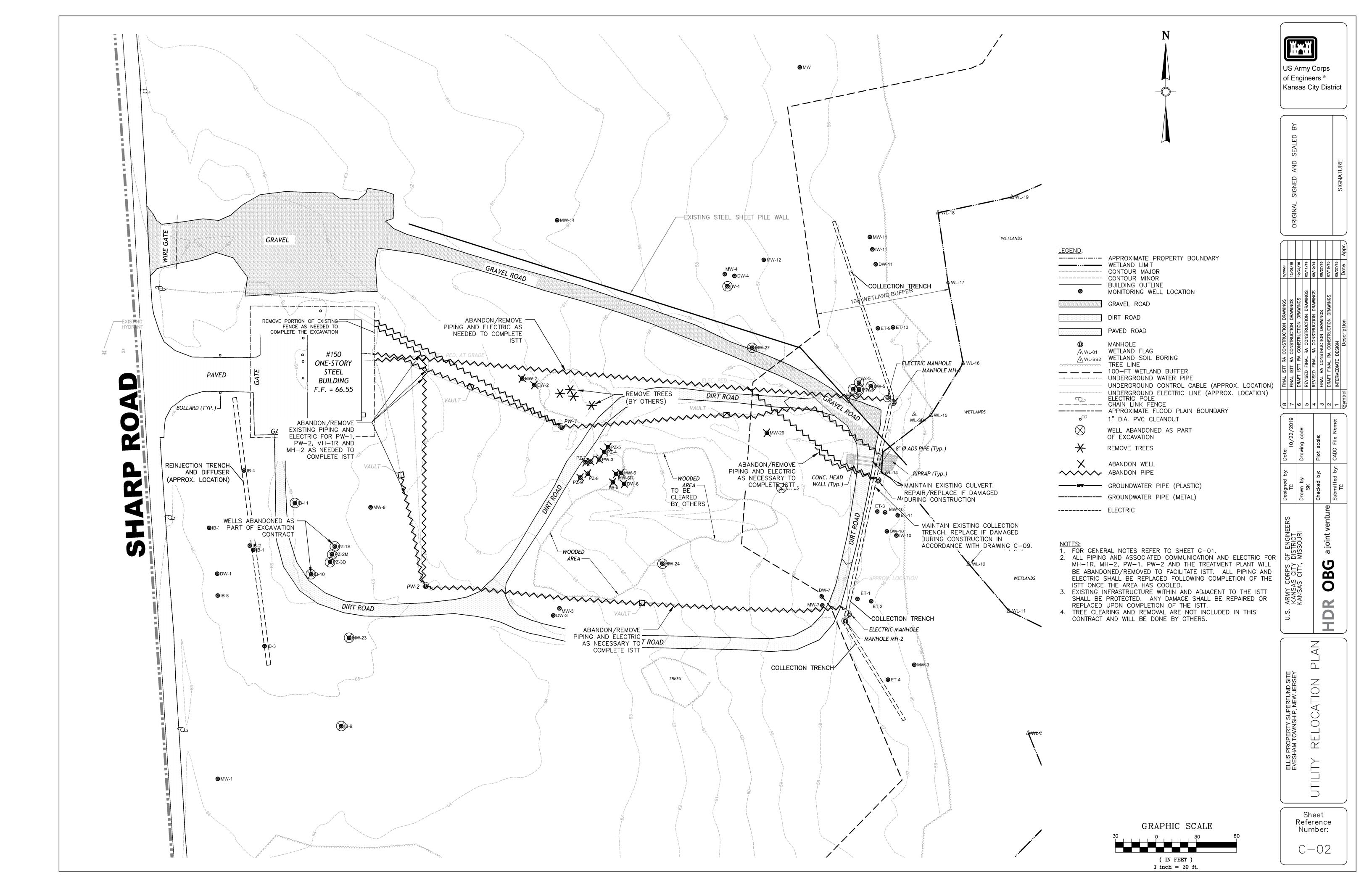


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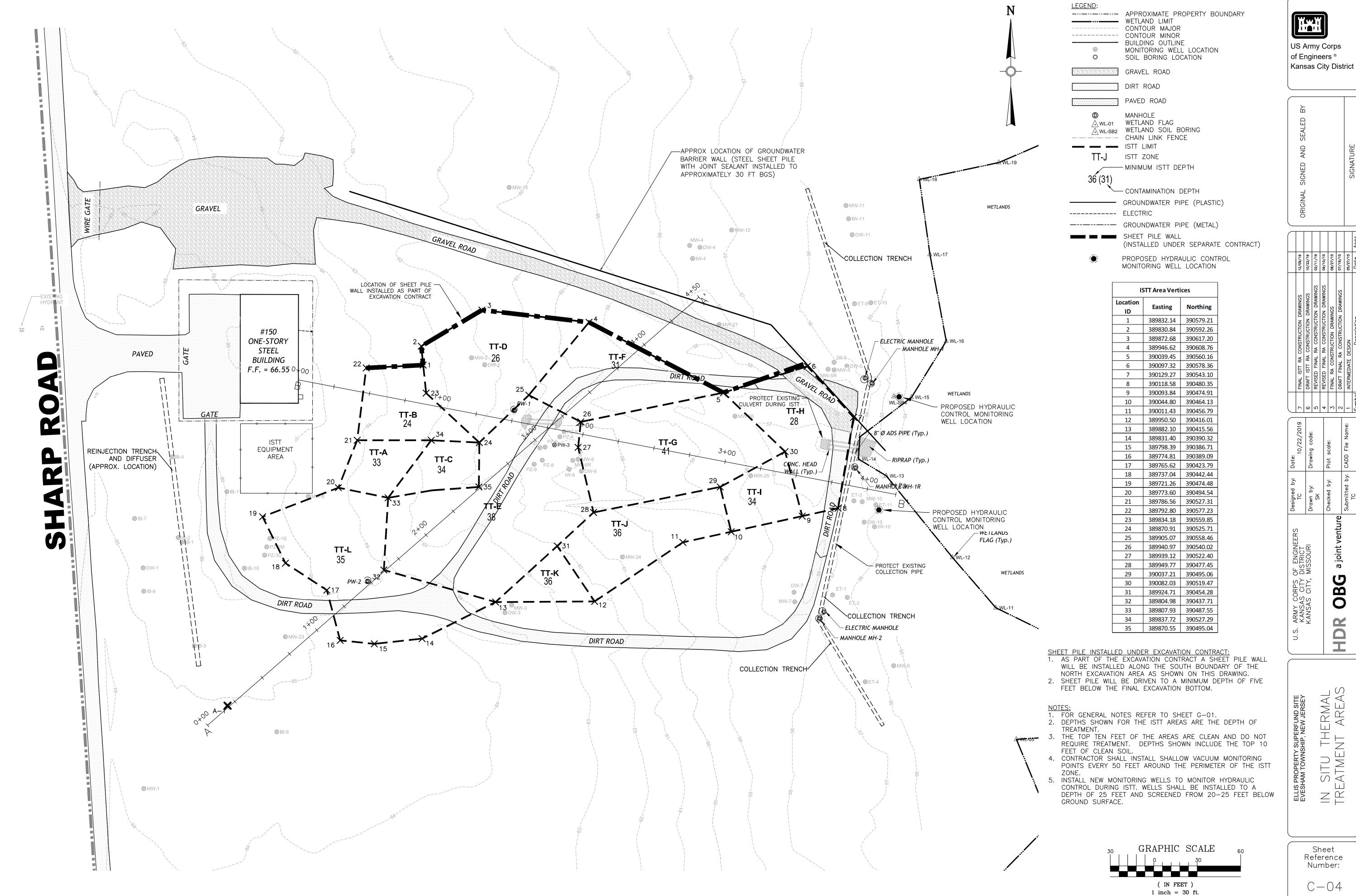
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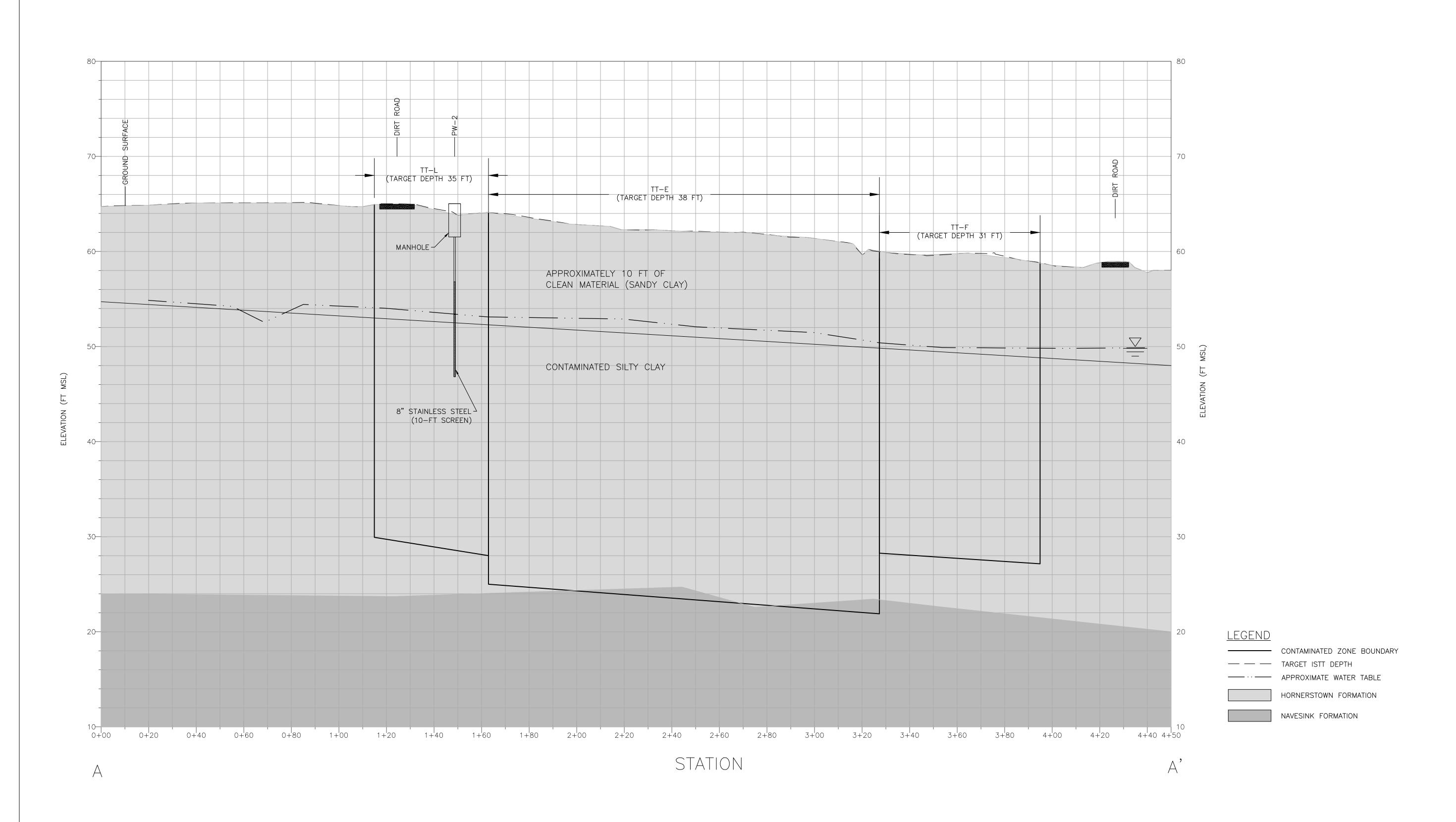
CONSTRUCTION
STAGING PLAN

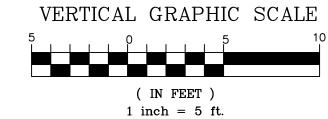
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( IN FEET ) 1 inch = 40 ft.







HORIZONTAL GRAPHIC SCALE ( IN FEET ) 1 inch = 20 ft.

- NOTES:

  1. GROUNDWATER TABLE SHOWN IS BASED ON BORINGS COMPLETED DURING THE 2014 PDI.

  2. PW-2 CONSTRUCTION DETAILS BASED ON DRAWINGS PREPARED BY ACRES INTERNATIONAL CORPORATION, DATED AUGUST 1999 AND PREPARED AS PART OF THE ELLIS PROPERTY GROUNDWATER REMEDIATION DESIGN DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE ACCURACY OF THE INFORMATION PROVIDED.

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CROSS A-A' ISTT AREA SECTION ELLIS PROPERTY SUP EVESHAM TOWNSHIP,

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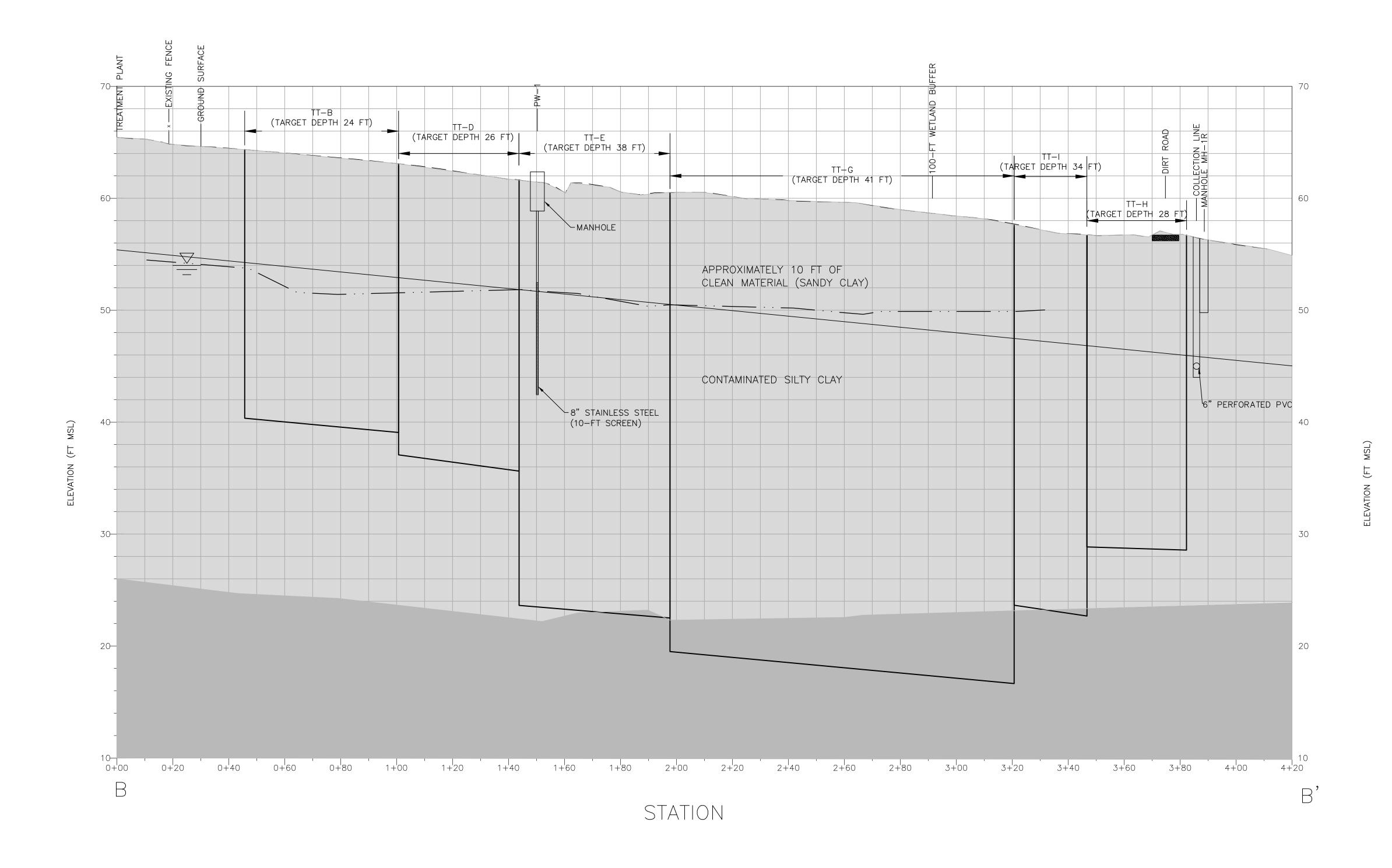
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ISTT AREA SECTION



<u>LEGEND</u> ----- CONTAMINATED ZONE BOUNDARY TARGET ISTT DEPTH HORNERSTOWN FORMATION NAVESINK FORMATION

VERTICAL GRAPHIC SCALE ( IN FEET ) 1 inch = 5 ft.

HORIZONTAL GRAPHIC SCALE

(IN FEET)1 inch = 20 ft.

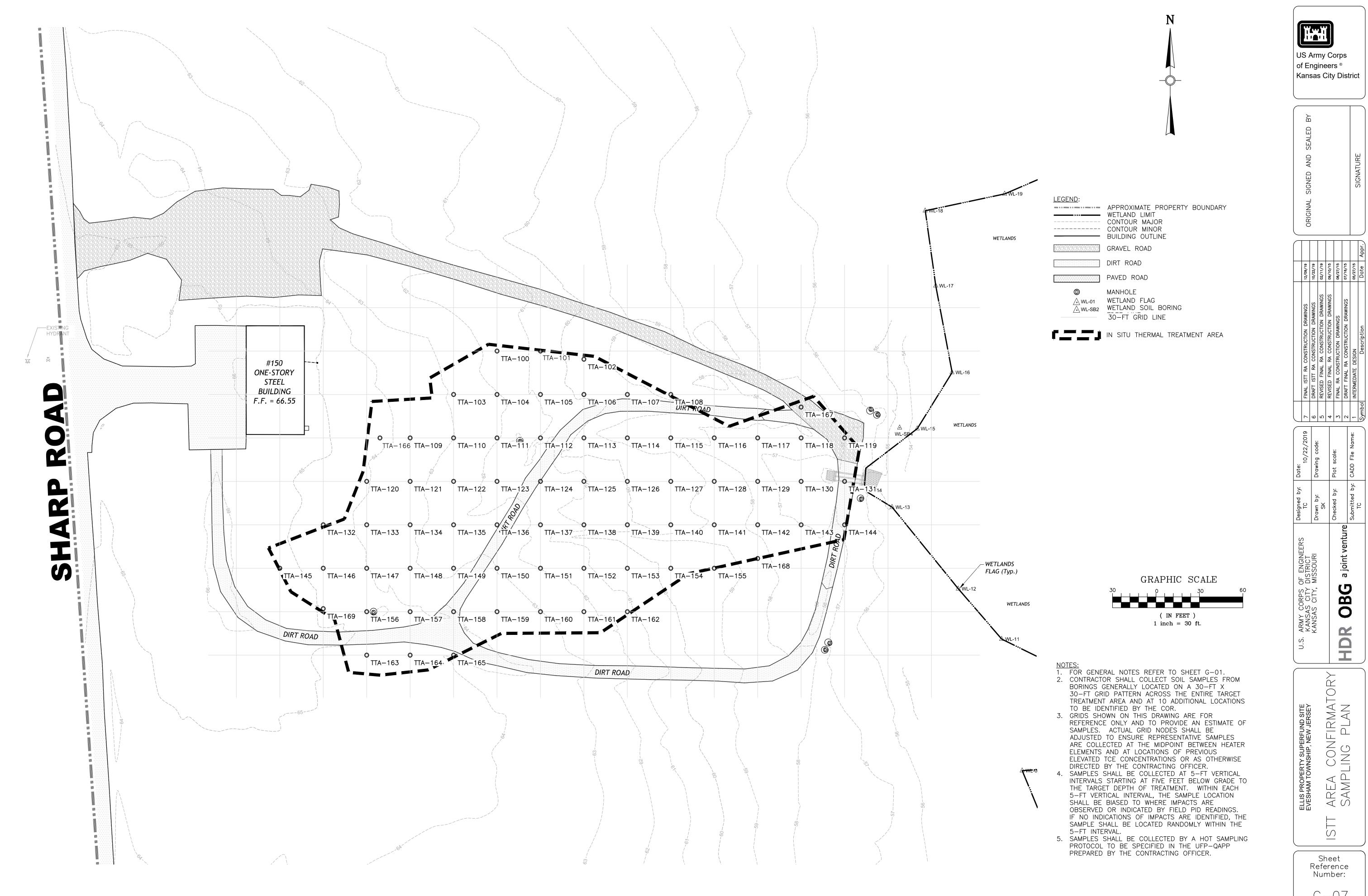
COMPLETED DURING THE 2014 PDI. 2. PW-1 CONSTRUCTION DETAILS BASED ON DRAWINGS PREPARED BY ACRES INTERNATIONAL CORPORATION, DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE ACCURACY OF THE INFORMATION PROVIDED.

NOTES:

1. GROUNDWATER TABLE SHOWN IS BASED ON BORINGS DATED AUGUST 1999 AND PREPARED AS PART OF THE ELLIS PROPERTY GROUNDWATER REMEDIATION DESIGN

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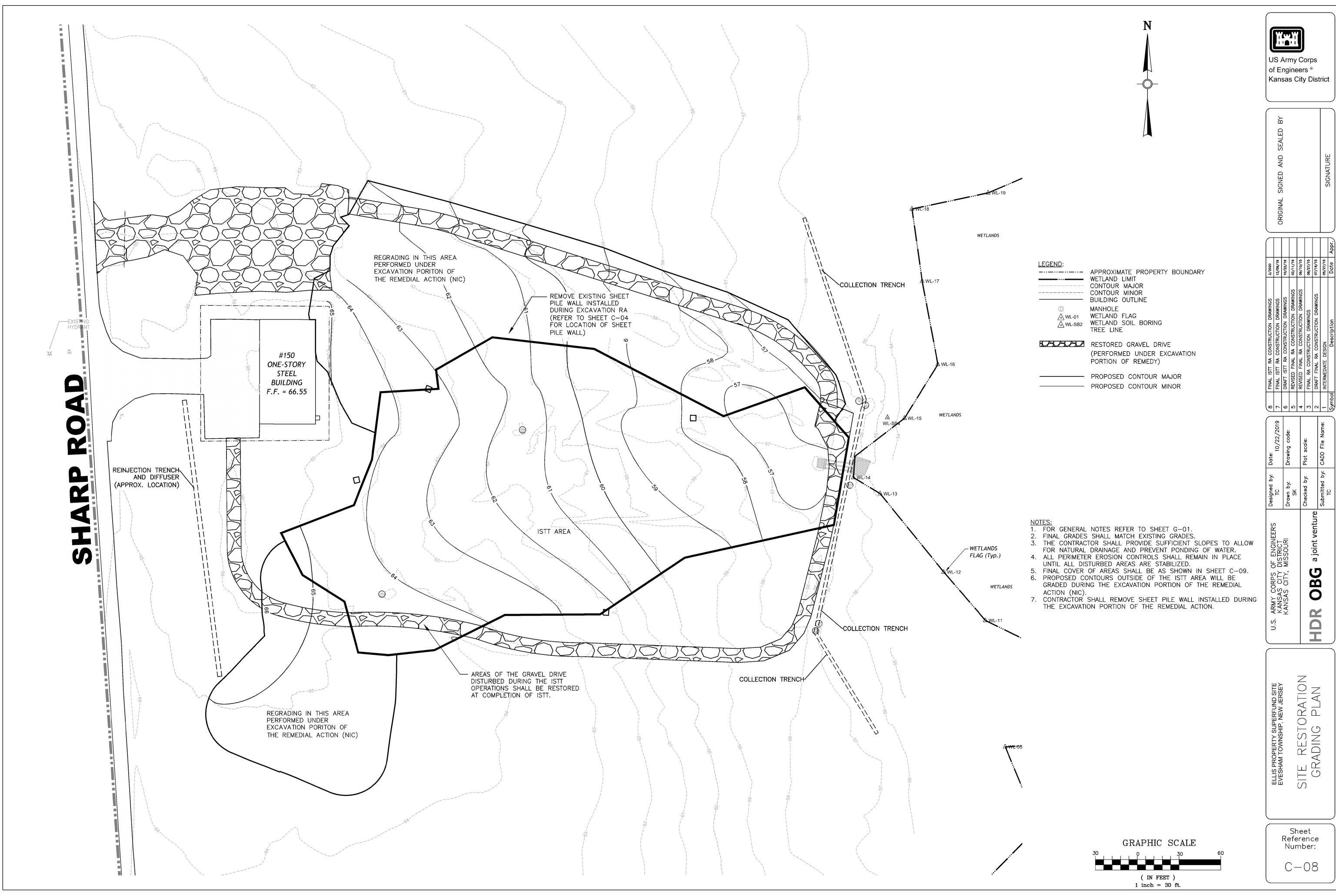
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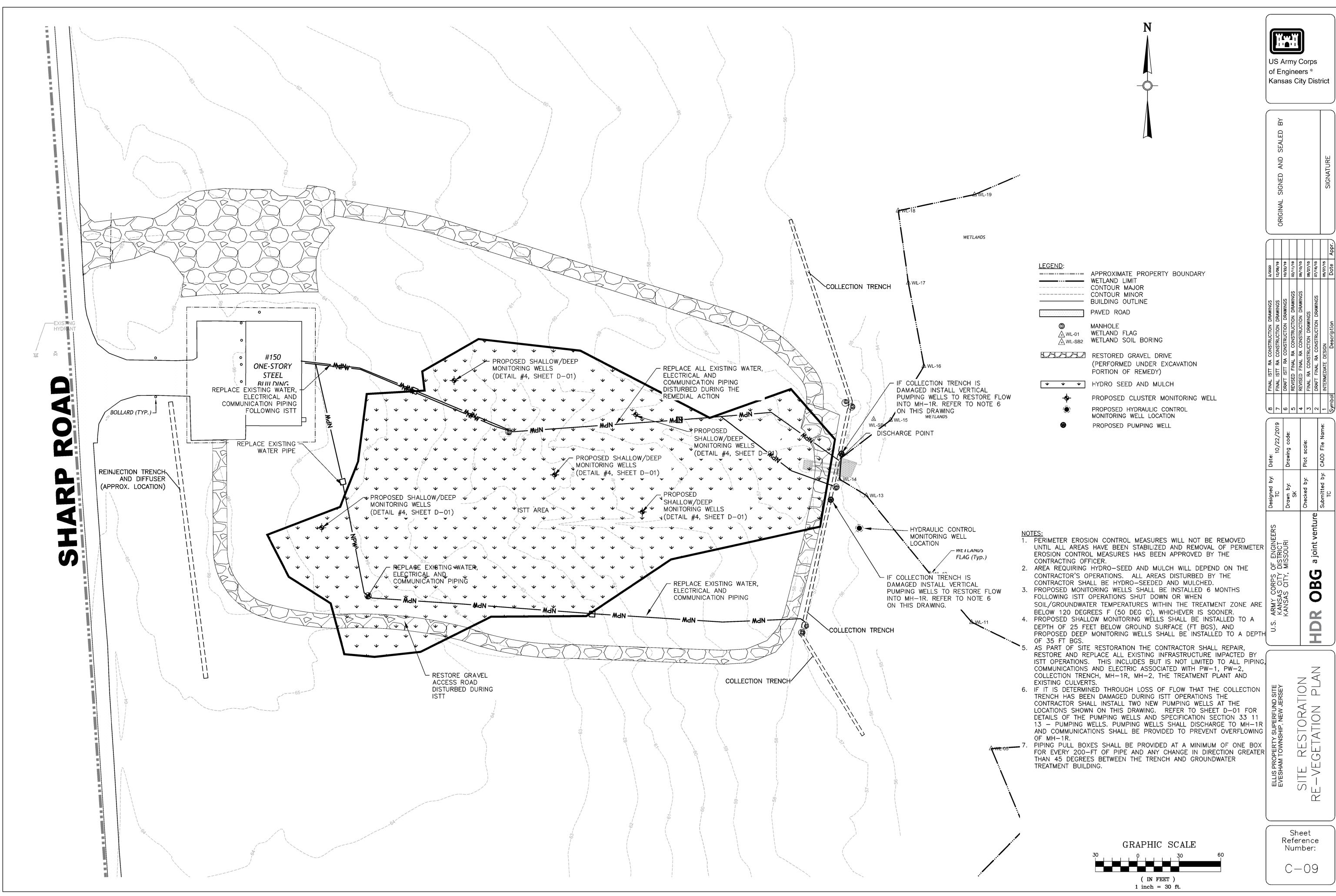
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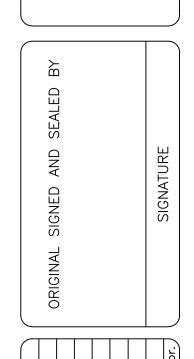


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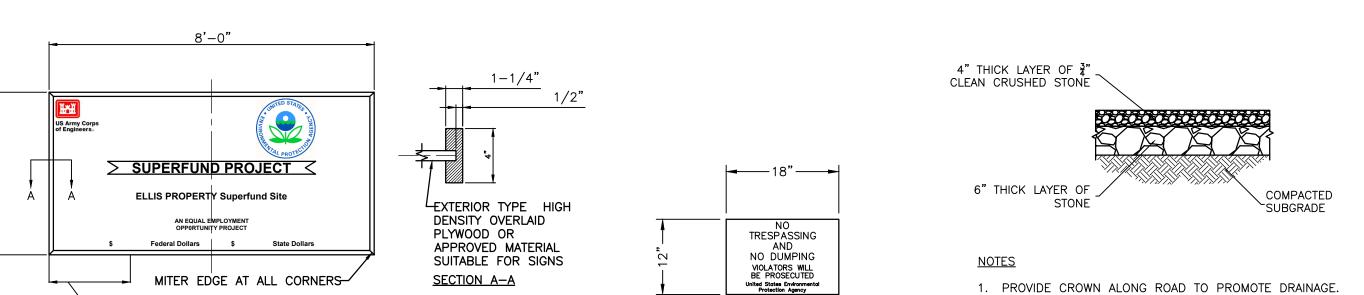
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LEFT BORDER SHALL BE DETERMINED USING THE LONGEST LINE CENTERED ON THE SIGN PROVIDING EQUAL BORDERS

1. PROVIDED BY OTHERS. NOT PART OF THIS CONTRACT.

PROJECT SIGNS 1 SCALE: N.T.S.

"NO TRESPASSING" SIGN 12 REQUIRED "NO TRESPASSING" SIGN (2)

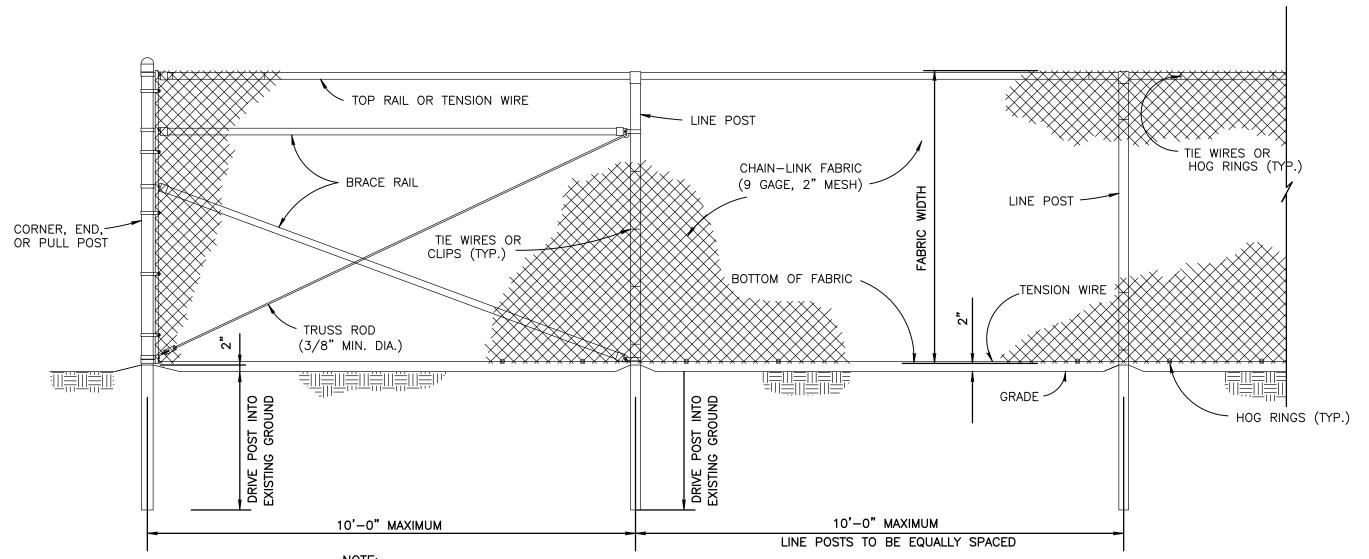
RED LETTERS/RED BORDER ON WHITE

1. PROVIDE CROWN ALONG ROAD TO PROMOTE DRAINAGE. PROVIDE A MAXIMUM SLOPE OF 10%.

3. CLEAR AND STRIP ROADBED AND PARKING AREAS OF ALL VEGETATION, ROOTS AND OTHER OBJECTIONABLE MATERIAL.

4. ACCESS ROAD TO BE INSTALLED BY OTHERS. ANY DAMAGE TO ROAD AS A RESULT OF ISTT OPERATIONS SHALL BE REPAIRED BY THE CONTRACTOR UPON COMPLETION

RESTORED ACCESS ROAD SECTION DETAIL 3



NOTE:

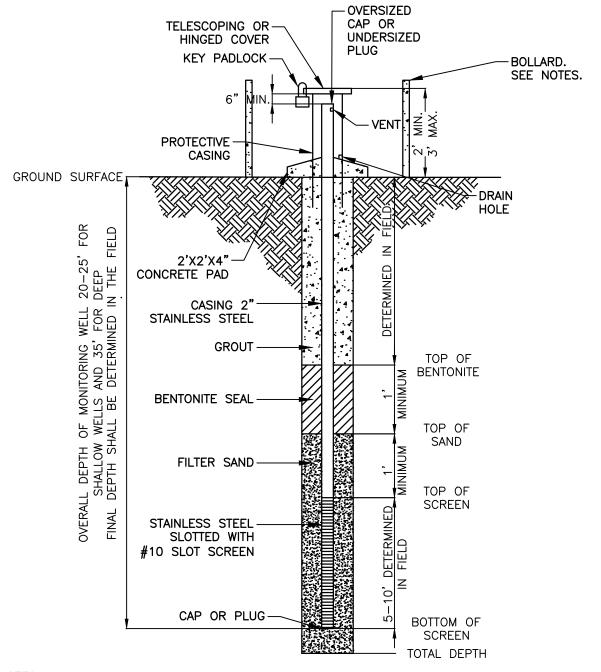
1. FENCE SHALL BE INSTALLED TO WITHSTAND A SIDE PRESSURE OF 250 PSI. 2. IF POST CANNOT BE DRIVEN CONCRETE BASES MAY BE NEEDED.

SCALE: N.T.S.

CHAIN LINK SECURITY FENCE DETAIL 5

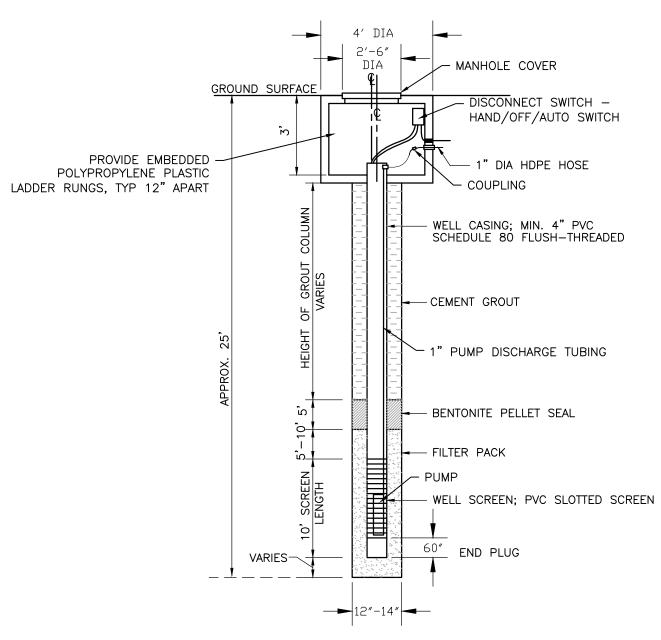
- GATE FRAME GATE OPENING DIRECTION GATE SWING (TYP.) FENCE FABRIC (TYP.) LEAF TOP TENSION WIRE OR RAIL AS SPECIFIED (TYP.) . CHAIN-LINK FABRIC - BRACE RAIL (TYP.) DROP ROD . LINE POST HINGES (TYP.) GATE FRAME BOTTOM TENSION — TRUSS ROD (TYP.) LATCH ASSÈMBLY - BRACE RAIL (TYP.) √ 3/8**"**ø , GRADE LINE TRUSS
RODS (TYP.) 3'-10" FOR POSTS 8 5/8" O.D. 3'-4" FOR POSTS 6 5/8" O.D. 2'-10" MIN. FOR POSTS 4" O.D. & LESS 16" MIN. FOR GATE POSTS 4" O.D. & LESS 24" FOR GATE POSTS OVER 4" O.D. ELEVATION

DOUBLE SWING GATE (TYPE FE7 FENCE) 6



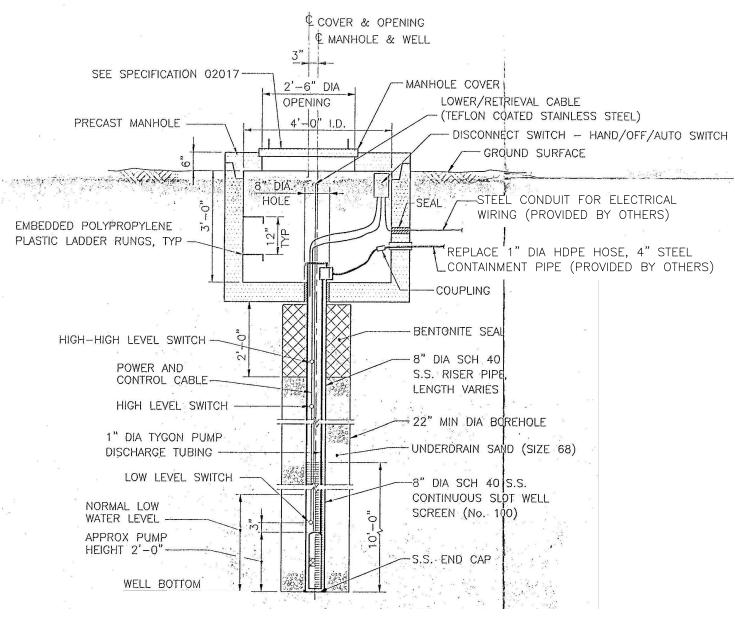
1. SIX 2-INCH DIAMETER OR LARGER CONCRETE-FILLED STEEL POSTS TO SERVE AS BOLLARDS WILL BE EQUALLY SPACED AROUND EACH SHALLOW/DEEP WELL PAIR. THE BOLLARDS WILL BE CEMENTED IN PLACE 2 TO 3 FEET BELOW GROUND, OUTSIDE THE CONCRETE PAD. THE POSTS EXTEND A MINIMUM OF 3 FEET ABOVE GROUND. AFTER INSTALLATION, THE BOLLARDS WILL BE PAINTED YELLOW. THE GROUND IMMEDIATELY SURROUNDING THE TOP OF THE WELL PAD WILL BE SLOPED AWAY FROM THE WELL.

## MONITORING WELL DETAIL SCALE: N.T.S.



PUMPING WELL DETAIL N.T.S. NOTES:

1. DETAIL IS PROVIDED FOR CONTRACTOR'S REFERENCE. PER SPECIFICATION SECTION 33 11 13 - PUMPING WELLS, THE CONTRACTOR SHALL PREPARE A PLAN FOR INSTALLING WELL POINTS TO REPLACE SECTIONS OF THE COLLECTION TRENCH THAT ARE IMPACTED BY ISTT OPERATION. THE PLAN SHALL PROVIDE FOR THE COMPLETE INSTALLATION OF VERTICAL WELL POINTS INCLUDING ALL EQUIPMENT, INSTRUMENTATION, CONTROLS, ELECTRICAL PIPING, AND HOUSING TO INSTALL TWO WORKING PUMPING WELLS. DISCHARGE PIPING SHALL BE INSTALLED TO CONVEY EXTRACTED WATER TO MH-1.

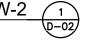


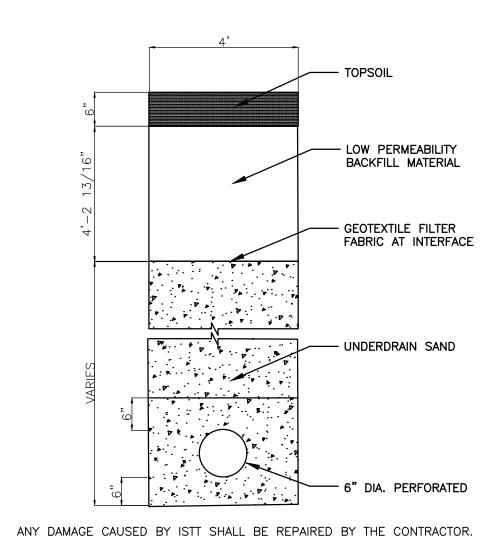
- 1. CONTRACTOR TO REMOVE ALL EXISTING EQUIPMENT FROM INSIDE PUMPING WELL THAT COULD BE DAMAGED BY HIGH TEMPERATURES EXPECTED DURING THE ISTT
- AND STORE FOR LATER REINSTALLATION.

  2. CONTRACTOR TO PROVIDE A PRESSURE— AND TEMPERATURE—RATED CAP FOR PW—1 AND PW—2 TO PREVENT HOT VAPORS FROM EMERGING DURING ISTT.
- ANY DAMAGE RESULTING FROM ISTT SHALL BE REPAIRED BY THE CONTRACTOR.
   FOLLOWING ISTT, ONCE SOILS HAVE COOLED SUFFICIENTLY CONTRACTOR SHALL RE—INSTALL EQUIPMENT, DISCHARGE PIPING, AND ELECTRICAL WIRING.
   DISCHARGE PIPING AND ELECTRICAL WIRING TO BE PROVIDED BY OTHERS FOR

AS-BUILT DETAIL PW-1 AND PW-2

INSTALLATION.





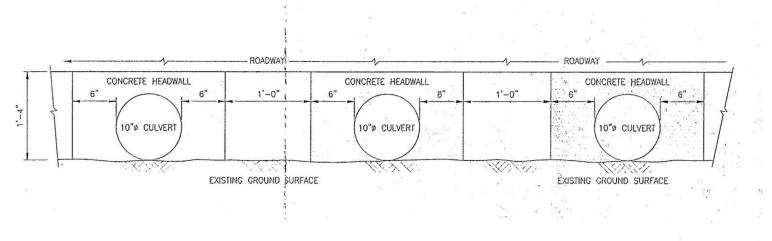
EXISTING COLLECTION TRENCH DETAIL

SCALE: N.T.S.

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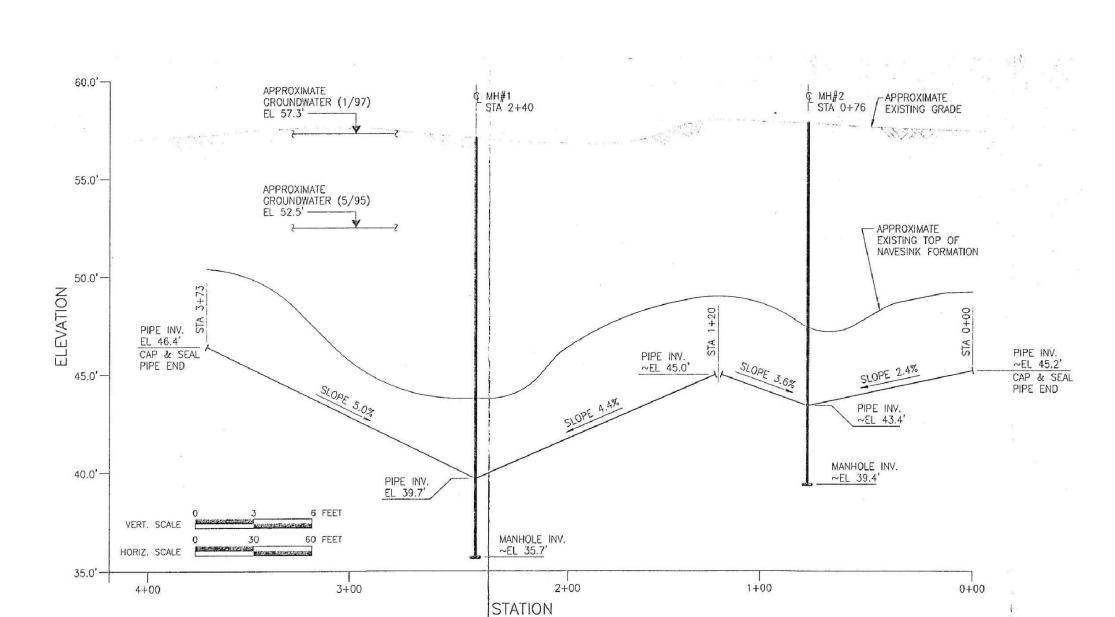




CONTRACTOR SHALL REPAIR AND/OR REPLACE CULVERT TO ITS EXISTING CONDITION FOLLOWING COMPLETION OF ISTT.

SCALE: N.T.S.





SECTION DETAIL FOR EXISTING COLLECTION TRENCH (3) DISCONNECT SWITCH HAND/OFF/AUTO SWITCH ---LOW PERMEABILITY BACKFILL FILTER FABRIC LINING AT INTERFACE - GROUND SURFACE BETWEEN LOW PERMEABILITY ELECTRICAL POWER & CONTROL CABLE TO CONTROL BLDG. BACKFILL AND UNDERDRAIN HDPE HOSE -HIGH-HIGH LEVEL SWITCH-HIGH LEVEL 1"DIA TYGON - EXIST NAVESINK FORMATION PERFORATED - LOWERING/RETRIEVAL CHAIN 20 GPM SUBMERSIBLE PUMP W/ LEVEL CONTROL SWITCH -

ANY DAMAGE TO EXISTING MANHOLES OR COLLECTION TRENCH PIPING AS A RESULT OF ISTT SHALL BE REPAIRED/REPLACED BY THE CONTRACTOR.

THE SE HE AIRED, HE BASED DI THE CONTINUOUS.

EXISTING COLLECTION MANHOLE AND PUMP DETAIL 5
SCALE: N.T.S.

ELLIS PROPERTY SUPERFUND SITE EVESHAM TOWNSHIP, NEW JERSEY AS - BUILT DETAILS

US Army Corps of Engineers ®

Kansas City District

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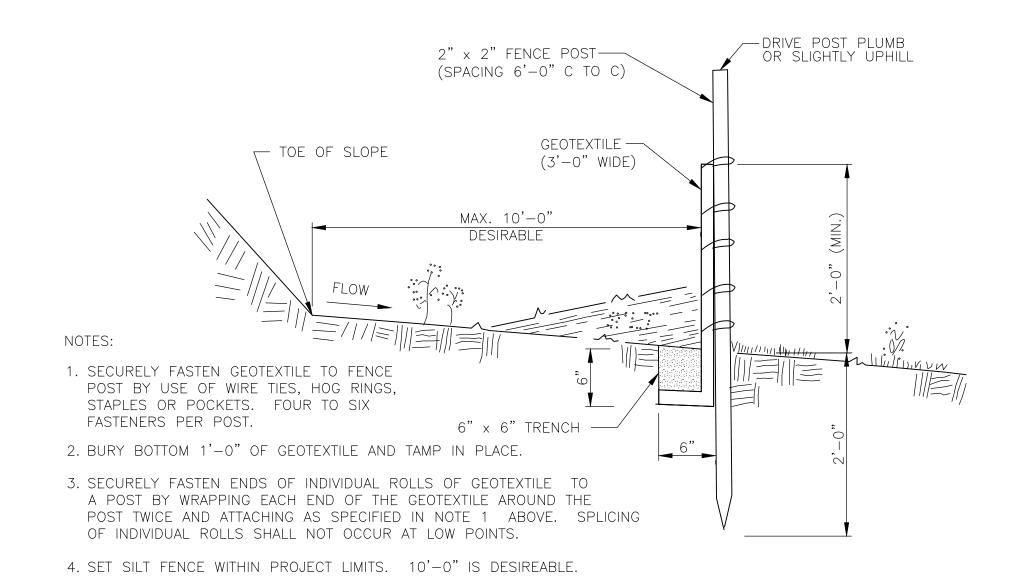
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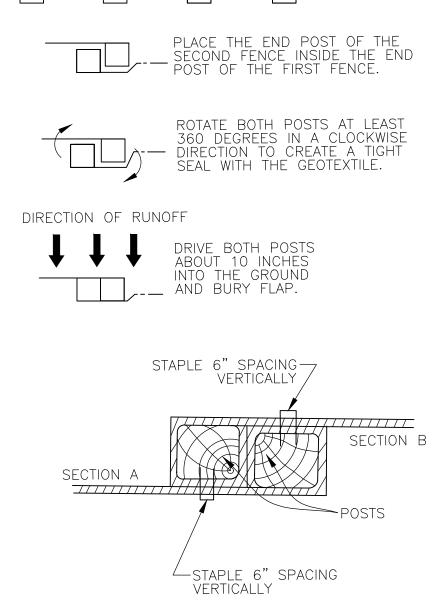
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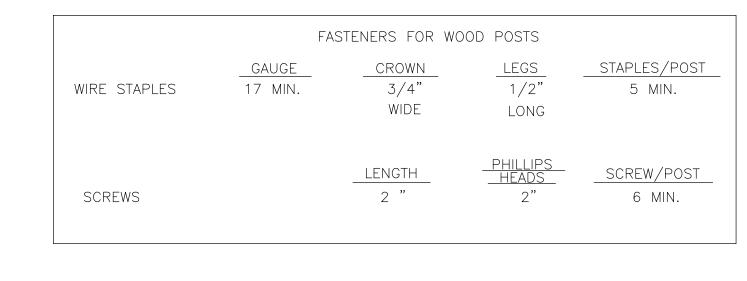
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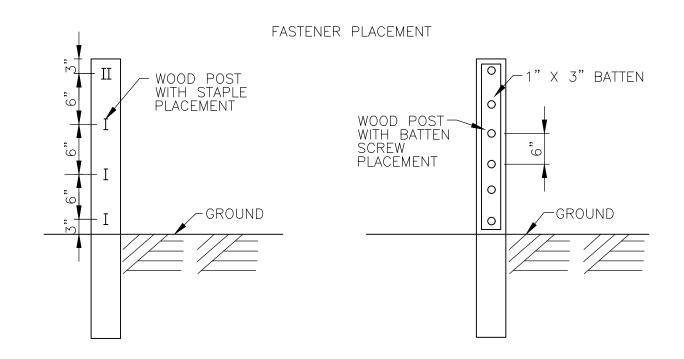
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NOTE:
AS-BUILT DETAILS WERE TAKEN FROM PLAN PREPARED BY ACRES ENTITLED ELLIS PROPERTY GROUNDWATER REMEDIATION DESIGN DRAWINGS AND DATED AUGUST 1999. INFORMATION IS THE BEST AVAILABLE INFORMATION BUT MAY NOT ACCURATELY REPRESENT THE ACTUAL INSTALLED CONDITIONS OF THE INFRASTRUCTURE. THE CONTRACTOR IS RESPONISBLE FOR VERIFYING EXISTING INSTALLATION OF INFRASTRUCTURE AND REPAIRING AND/OR REPLACING INFRASTRUCTURE DAMAGED DURING ISTT TO ITS ORIGINAL CONDITION OR BETTER.











SITLT FENCE (1 SCALE: N.T.S.

ATTACHING TWO SILT FENCES SCALE: N.T.S.



SILT FENCE FASTENER REQUIREMENTS 3 SCALE: N.T.S.

SOIL EROSION AND SEDIMENT CONTROL NOTES:

- 1. ALL APPLICABLE EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE IN PLACE PRIOR TO ANY GRADING OPERATION AND/OR INSTALLATION OF PROPOSED STRUCTURES OR UTILITIES.
- 2. SOIL EROSION AND SEDIMENT CONTROL PRACTICES ON THE PLAN SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY.
- 3. ALL APPLICABLE EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE LEFT IN PLACE UNTIL CONSTRUCTION IS COMPLETED AND/OR THE AREA IS STABILIZED. 4. ANY DISTURBED AREA THAT WILL BE LEFT EXPOSED FOR MORE THAN SIXTY (60) DAYS AND NOT SUBJECT TO CONSTRUCTION TRAFFIC SHALL IMMEDIATELY RECEIVE A TEMPORARY SEEDING AND FERTILIZATION IN ACCORDANCE WITH THE STANDARDS.
- MULCHED WITH SALT HAY OR EQUIVALENT AND ANCHORED IN ACCORDANCE WITH THE STANDARDS. 5. ALL CRITICAL AREAS SUBJECT TO EROSION WILL RECEIVE A TEMPORARY SEEDING IN COMBINATION WITH STRAW MULCH IN ACCORDANCE WITH THE STANDARDS

IF THE SEASON PROHIBITS TEMPORARY SEEDING, THE DISTURBED AREAS WILL BE

- IMMEDIATELY FOLLOWING ROUGH GRADING. 6. THE SITE SHALL AT ALL TIMES BE GRADED AND MAINTAINED SUCH THAT ALL STORMWATER RUNOFF IS DIVERTED TO SOIL EROSION AND SEDIMENT CONTROL
- FACILITIES. 7. ALL SOIL EROSION AND SEDIMENT CONTROL STRUCTURES WILL BE INSPECTED AND
- MAINTAINED ON A REGULAR BASIS AND AFTER EVERY STORM EVENT. 8. SOIL STOCKPILES ARE NOT TO BE LOCATED WITHIN FIFTY (50) FEET OF A FLOODPLAIN, SLOPE, ROADWAY OR DRAINAGE FACILITY. THE BASE OF ALL STOCKPILES SHOULD BE PROTECTED BY A HAY BALE BARRIER OR SEDIMENT FENCE. PROPOSED LOCATIONS MUST BE DELINEATED ON THE PLANS.
- 9. A CRUSHED STONE TIRE CLEANING PAD WILL BE INSTALLED WHEREVER A CONSTRUCTION ACCESS EXISTS. THE RIP RAP PAD MUST BE 100 FEET IN LENGTH AND THE STONE MUST BE 1.5" - 4" IN SIZE, PLACED 12" THICK AND THE FULL WIDTH OF THE ENTRANCE. IT SHOULD BE UNDERLAIN WITH A SUITABLE SYNTHETIC FILTER FABRIC AND MAINTAINED. THE STRUCTURE MUST BE DELINEATED AND DETAILED ON THE PLANS.
- 10. IF A STONE CONSTRUCTION ACCESS IS TO BE USED AS AN EXIT ONTO A MAJOR
- HIGHWAY, A THIRTY (30) FOOT PAVED TRANSITION AREA SHALL BE INSTALLED. 11. ALL DRIVEWAYS MUST BE STABILIZED WITH 2 1/2" CRUSHED STONE OR SUB BASE PRIOR TO INDIVIDUAL LOT CONSTRUCTION.
- 12. PAVED ROADWAYS MUST BE KEPT CLEAN AT ALL TIMES.
- 13. ALL CATCH BASIN INLETS WILL BE PROTECTED DURING CONSTRUCTION (FILTER DETAILS APPEAR ON PLAN).
- 14. ALL STORM DRAINAGE OUTLETS WILL BE STABILIZED BEFORE THE DISCHARGE
- POINTS BECOME OPERATIONAL. 15. ALL DEWATERING OPERATIONS MUST DISCHARGE DIRECTLY INTO A SEDIMENT FILTRATION DEVICE. THE SEDIMENT FILTER MUST BE PLACED SO AS NOT TO CAUSE EROSION OF THE DOWNSTREAM AREA. FIELD PLACEMENT AND USE OF THE STRUCTURE MUST BE APPROVED BY THE DISTRICT EROSION CONTROL INSPECTOR PRIOR TO COMMENCEMENT OF DEWATERING ACTIVITIES.
- 16. THE BURLINGTON COUNTY SOIL CONSERVATION DISTRICT SHALL BE NOTIFIED 72 HOURS PRIOR TO ANY LAND DISTURBANCE.
- 17. SOIL HAVING A PH OF 4.0 OR LESS OR CONTAINING IRON SULFIDE MUST BE COVERED WITH A MINIMUM OF 12 INCHES OF SOIL HAVING A PH OF 5.0 OR MORE BEFORE SEEDBED PREPARATION.
- 18. IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO PROVIDE CONFIRMATION OF LIME, FERTILIZER AND SEED APPLICATION RATES AT THE REQUEST OF THE BURLINGTON COUNTY SOIL CONSERVATION DISTRICT.
- 19. NJSA 4:24-39, ET SEQ. REQUIRES THAT NO CERTIFICATE OF OCCUPANCY BE ISSUED BEFORE ALL THE PROVISIONS OF THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLAN HAVE BEEN COMPLIED WITH FOR PERMANENT MEASURES. ALL SITE WORK FOR THE PROJECT MUST BE COMPLETED PRIOR TO THE DISTRICT ISSUING A REPORT OF COMPLIANCE AS A PREREQUISITE TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY BY THE MUNICIPALITY.
- 20. NJSA 4:24-39, ET SEQ. REQUIRES THAT UPON PERMANENT SITE STABILIZATION AND COMPLETION OF CONSTRUCTION THE CONTRACTOR SHALL APPLY TO THE SOIL CONSERVATION DISTRICT FOR A FINAL COMPLIANCE INSPECTION TO CHECK THAT ALL THE PROVISIONS OF THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLAN HAVE BEEN COMPLIED WITH FOR PERMANENT MEASURES.
- 21. OFF-SITE SEDIMENT DISTURBANCE MAY REQUIRE ADDITIONAL CONTROL MEASURES TO BE DETERMINED BY THE DISTRICT EROSION CONTROL INSPECTOR.
- 22. A COPY OF THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLAN MUST BE MAINTAINED ON THE PROJECT SITE DURING CONSTRUCTION. 23. ANY CONVEYANCE OF THIS PROJECT PRIOR TO ITS COMPLETION WILL TRANSFER FULL RESPONSIBILITY FOR COMPLIANCE WITH THE CERTIFIED PLAN TO ALL
- 24. IMMEDIATELY AFTER THE COMPLETION OF STRIPPING AND STOCKPILING TOPSOIL, THE STOCKPILE SHALL BE SEEDED WITH TEMPORARY VEGETATION, STABILIZE TOPSOIL STOCKPILES WITH STRAW MULCH FOR PROTECTION IF THE SEASON DOES
- NOT PERMIT THE ESTABLISHMENT OF TEMPORARY SEED. 25. ANY CHANGES TO THE SITE PLAN WILL REQUIRE THE SUBMISSION OF A REVISED SOIL EROSION AND SEDIMENT CONTROL PLAN TO THE BURLINGTON COUNTY SOIL CONSERVATION DISTRICT. THE REVISED PLAN MUST BE IN ACCORDANCE WITH THE CURRENT STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW
- 26. MAXIMUM SIDE SLOPES OF ALL EXPOSED SURFACES SHALL NOT BE CONSTRUCTED
- STEEPER THAN 3:1. 27. THE DISTRICT EROSION CONTROL INSPECTOR MAY REQUIRE ADDITIONAL MEASURES
- TO BE INSTALLED. 28. IMMEDIATELY PRIOR TO TOPSOIL APPLICATION, THE SUBSOIL SHALL BE EVALUATED FOR COMPACTION IN ACCORDANCE WITH THE STANDARD FOR LAND GRADING. SEE
- 29. NJSA 4:24-39 ET SEQ. REQUIRES THAT NO CERTIFICATE OF OCCUPANCY BE ISSUED BEFORE THE COMPLETION OF A SOIL COMPACTION MITIGATION VERIFICATION FORM AND CONFIRMATION BY THE DISTRICT INSPECTOR THAT THE COMPACTION MITIGATION REQUIREMENTS IN THE STANDARD FOR LAND GRADING
- HAVE BEEN SUFFICIENTLY ADDRESSED. 30. THE RESPONSIBILITY FOR EROSION CONTROLS FOR INDIVIDUAL LOTS WILL TRANSFER TO SUBSEQUENT OWNERS OF THE LOT. THIS RESPONSIBILITY WILL BE DESCRIBED IN THE DEED, AND A SINGLE FAMILY HOME PLAN CONTAINING ALL
- NECESSARY EROSION CONTROLS WILL BE PROVIDED TO THE OWNER. 31. CONCRETE TRUCK WASHOUT AREAS WILL BE MAINTAINED ON A CONTINUAL BASIS AND AS NEEDED.
- 32. THE STORMWATER POLLUTION PREVENTION PLAN AND THE SPILL RESPONSE PLAN SHALL BE AVAILABLE ON SITE FOR REVIEW BY THE SCD INSPECTOR AND/OR THE NJDEP INSPECTOR.
- 33. THE SCD INSPECTOR OR NJDEP INSPECTOR MAY REQUIRE ADDITIONAL MEASURES FOR STORMWATER POLLUTION PREVENTION TO BE INSTALLED.
- 34. INSPECTIONS OF ALL STORMWATER POLLUTION PREVENTION PLAN MEASURES WILL BE CONDUCTED AND DOCUMENTED ON A REGULAR BASIS AND AFTER EVERY STORM EVENT. 35. WASTE COLLECTION CONTAINERS WILL NOT BE PERMITTED TO OVERFLOW.
- 36. ANY SPILLS OF HAZARDOUS OR SANITARY WASTES WILL BE CLEANED UP IMMEDIATELY, AND IN ACCORDANCE WITH THE SPILL RESPONSE PLAN. SPILL KITS MUST BE AVAILABLE ONSITE OR ADJACENT TO THE SITE.
- 37. ANY HAZARDOUS SUBSTANCE RELEASES IN EXCESS OF REPORTABLE QUANTITIES (RQ) ESTABLISHED UNDER 40 C.F.R. 110, 117 AND 302 THAT OCCUR WITHIN A 24-HOUR PERIOD MUST BE REPORTED THE NATIONAL RESPONSE CENTER (800 424-8802).

#### SOIL EROSION AND SEDIMENT CONTROL PERMIT REQUIREMENTS:

1. THE CONTRACTOR WILL RETAIN AN INDEPENDENT CONTRACTOR FOR COMPLETING THE SOIL EROSION AND SEDIMENT CONTROL PLAN APPROVAL PROCESS PRIOR TO PROJECT START, WHICH CONSISTS OF SUBMITTAL OF SOIL EROSION AND SEDIMENT CONTROL PLAN APPLICATIONS ALONG WITH REQUIRED SIGNED AND SEALED PLANS AND DETAILS TO THE BURLINGTON COUNTY SOIL CONSERVATION DISTRICT.

US Army Corps of Engineers® Kansas City District

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